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Interview Q A

React JS

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What is Single Page App in React JS ?

A Single Page Application (SPA) is a web application that loads a single HTML page and dynamically updates the page as the user interacts with the application.

SPAs are often used to create more responsive and engaging user interfaces, as they can avoid the need for full page reloads.

React JS is a JavaScript library for building user interfaces. It is a popular choice for building SPAs because it is declarative, efficient, and flexible.

What is React and why is it used?

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React is a JavaScript library for building user interfaces (UIs). It is one of the most popular JavaScript libraries for building web applications, and it is also used to build mobile applications and native desktop applications.

Why is React used?

Virtual DOM: React uses a virtual DOM to efficiently update the UI. The virtual DOM is a representation of the DOM in memory, and it is used to calculate the changes that need to be made to the actual DOM before they are applied. This makes React UIs very performant.

Components: React is based on components, which are reusable pieces of UI code. This makes it easy to build complex UIs from smaller, more manageable pieces.

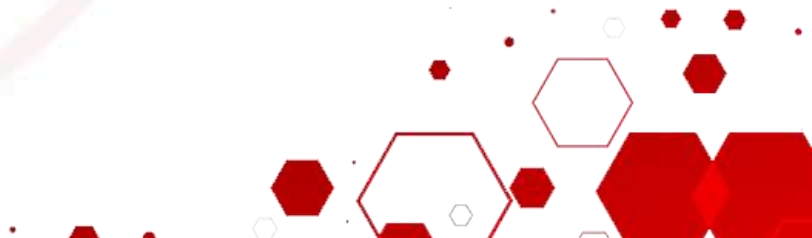
Large community: React has a large and active community of developers, which means that there are plenty of resources available to help you learn the library and find solutions to your problems.

Can you explain the virtual DOM and its benefits?

The virtual DOM is a performance optimization technique in React that helps minimize unnecessary updates to the actual DOM by using a lightweight, in-memory representation of the UI.

This results in improved rendering efficiency and a more responsive user interface.

The virtual DOM plays a important role in optimizing the performance and responsiveness of modern web applications

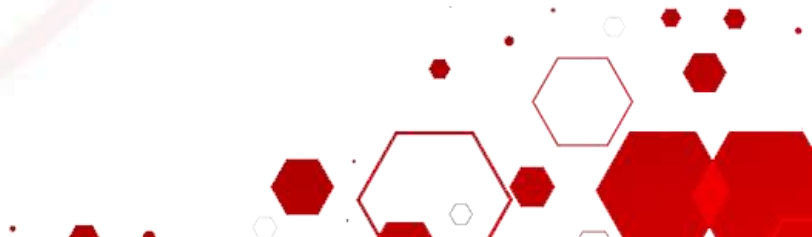


What are components in React?

Components are the building blocks of a user interface.

A component is a reusable, self-contained piece of code that defines how a part of the user interface should appear and behave.

React applications are typically composed of multiple components, each responsible for a specific part of the UI.



How do you create a component in React?

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There are two main ways to create a component in React: using functional components or using class components.

Functional components are the more modern and preferred way to create components in React. They are simpler to write and easier to understand than class components.

Class components are an older way to create components in React. They are more complex than functional components and are not as commonly used today.

Creating a functional component

To create a functional component, you simply define a function that returns JSX.

```
function myFunction() {
  return <h1>Hello, world!</h1>;
}
```

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Creating a class component

To create a class component, you first need to create a class that extends the React.Component class. Then, you need to define a render() method that returns JSX.

```
class First extends React.Component {
  render() {
    return <h1>Hello, world!</h1>;
  }
}
```

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Thank You

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